1632

## TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

DATE: 09/27/2002

PATENT APPLICATION: US/09/590,211A

**09/590,211A** TIME: 13:02:22

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

```
4 <110> APPLICANT: Rouleau, Guy A.
        Brais, Bernard
 5
 7 <120> TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
        FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THereof
11 <130> FILE REFERENCE: 3028.1000-000
13 <140> CURRENT APPLICATION NUMBER: 09/590,211A
14 <141> CURRENT FILING DATE: 2000-06-08
16 <150> PRIOR APPLICATION NUMBER: PCT/CA98/01133
17 <151> PRIOR FILING DATE: 1998-12-07
                                                             ENTERED
19 <150> PRIOR APPLICATION NUMBER: 2,218,199
20 <151> PRIOR FILING DATE: 1997-12-09
22 <160> NUMBER OF SEQ ID NOS: 21
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 30
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
                                                                     30
32 atggcggcgg cggcggcggc ggcagcagca
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 24
36 <212> TYPE: DNA
37 <213> ORGANISM: Homo sapiens
39 <400> SEQUENCE: 2.
                                                                     24
40 atggcggcgg cggcggcggc ggca
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 27
44 <212> TYPE: DNA
45 <213> ORGANISM: Homo sapiens
47 <400> SEQUENCE; 3
                                                                     27
48 atggcggcgg cggcggcggc ggcggca
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 30
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
55 <400> SEQUENCE: 4
                                                                     30
56 atggcggcgg cggcggcggca
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 33
60 <212> TYPE: DNA
61 <213> ORGANISM: Homo sapiens
```

33

64 atggcggcgg cggcggcggcg gca

63 <400> SEQUENCE: 5

RAW SEQUENCE LISTING DATE: 09/27/2002 PATENT APPLICATION: US/09/590,211A TIME: 13:02:22

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

```
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 36
68 <212> TYPE: DNA
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 6
                                                              36
72 atggcggcgg cggcggcggc ggcggcggcg gcggca
74 <210> SEQ ID NO: 7
75 <211> LENGTH: 39
76 <212> TYPE: DNA
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 7
                                                              39
80 atggcggcgg cggcggcggc ggcggcggcg gcggcggca
82 <210> SEQ ID NO: 8
83 <211> LENGTH: 42
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 8
                                                              42
88 atgqcqqcqq cqqcqqcqqc gqcqqcqgcg gcgqcqqcqq ca
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 45
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 9
                                                              45
96 atggcggcgg cggcggcggc ggcggcggcg cggca
98 <210> SEQ ID NO: 10
99 <211> LENGTH: 19
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 10
104 Met Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Ala Ala Gly Gly
105 1
                   5
                                    10
                                                      15
106 Arg Gly Ser
110 <210> SEQ ID NO: 11
111 <211> LENGTH: 16
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 11
117 1
                   5
120 <210> SEQ ID NO: 12
121 <211> LENGTH: 17
122 <212> TYPE: PRT.
123 <213> ORGANISM: Homo sapiens
125 <400> SEOUENCE: 12
127 1
                   5
                                    10
128 Gly
132 <210> SEQ ID NO: 13
```

133 <211> LENGTH: 18

RAW SEQUENCE LISTING DATE: 09/27/2002 PATENT APPLICATION: US/09/590,211A TIME: 13:02:22

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

134 <212> TYPE: PRT 135 <213> ORGANISM: Homo sapiens 137 <400> SEQUENCE: 13 5 10 139 1 140 Ala Gly 144 <210> SEQ ID NO: 14 145 <211> LENGTH: 19 146 <212> TYPE: PRT 147 <213> ORGANISM: Homo sapiens 149 <400> SEQUENCE: 14 151 1 5 10 152 Ala Ala Gly 156 <210> SEQ ID NO: 15 157 <211> LENGTH: 20 158 <212> TYPE: PRT 159 <213> ORGANISM: Homo sapiens 161 <400> SEQUENCE: 15 163 1 5 164 Gly Ala Ala Gly 165 168 <210> SEQ ID NO: 16 169 <211> LENGTH: 21 170 <212> TYPE: PRT 171 <213> ORGANISM: Homo sapiens 173 <400> SEQUENCE: 16 175 1 5 10 176 Ala Gly Ala Ala Gly 177 20 180 <210> SEQ ID NO: 17 181 <211> LENGTH: 22 182 <212> TYPE: PRT 183 <213> ORGANISM: Homo sapiens 185 <400> SEQUENCE: 17 187 1 10 15 188 Ala Ala Gly Ala Ala Gly 189 20 192 <210> SEQ ID NO: 18 193 <211> LENGTH: 6002 194 <212> TYPE: DNA 195 <213> ORGANISM: Homo sapiens 197 <220> FEATURE: 198 <221> NAME/KEY: misc\_feature 199 <222> LOCATION: (4616)...(4616)

200 <223> OTHER INFORMATION: n= A,T,C, or G

RAW SEQUENCE LISTING DATE: 09/27/2002 PATENT APPLICATION: US/09/590,211A TIME: 13:02:22

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

```
202 <400> SEQUENCE: 18
203 aatgaaggtg gacacccaaa tagccccaat acaaatgcct gttcaatcaa ccaaacatct 60
204 aaqcaqcaca totatgtggt agcatattgc caggccgtga gactgcgaat ataaatagga 120
205 accgcccctc atctgcaggc gctcacaacc tagttagcaa acagtaaaac aattaagcgc 180
206 gccqtqqaca tagqcccact tqtcctggga aatqagggga agctggggtt tgcagtggtt 240
207 tgattgaagg gggactacat gttagaggca cagactgggt gcaggtacac ccaaaggaac 300
208 gagaagagtg gaaggaaaca acatccacaa agtaaccaca tgctggcgta tcgaaggccg 360
209 tgatttacgg ttttgagact ttacctcgcc agcaaagggg ggccagtctg ttagcggtgc 420
210 agattggagg ggtgacattg gaagctgtcc aggaaaaaga aaatggaact ggggagcaga 480
211 aggcctacgc aagagggcgg gacagacagg acttgtgact agtagctctg gactgaggaa 540
212 tectecetge tttetggtge gggagageta gtggatgatg gtgccaataa eetggatggg 600
213 gaaaqtaagc teeteetgg aatgetteat teacaacete catttteage aacateecat 660
214 ctactggtgc ttcctggtcg agatacaagt ttcctgaaac tgctgctctg ttttgggcct 720
215 cacceggeca acageteact agetggeaag cagtagtate aagatggegg eeeeetagga 780
216 ctggctagtc atgtgacctc gggtttccca agtttgaagc ccggcagtcc tttcgggggc 840
217 aaggttcacc tgtcacgaaa cgagtgtcac cccttcgact ctcgcaagcc aatcggcatc 900
218 tgagactggg ccactgcggt gaggcgatcg gaagattggt cctttccagt cgcctagcta 960
219 gggccaatca cggagcgtcc catacttcgc gggcccgccc gtaggccggg gagaagcagg 1020
220 aatategtea eagegtggeg gtattattae etaaggaete gataggaggt gggaegegtg 1080
221 ttgattgaca ggcagatttc cctaccggga tttgagaatt tggcgcagtg cccgccttag 1140
222 aggtgcgctt atttgattgc caagtaatat tccccaatgg agtactagct catggtgacg 1200
223 ggcaggcage ttgagctaat gagteeteeg tggeeggege ageteteeae atgeegggeg 1260
224 gegggeecea gtetgagegg egatggegge ggeggeggeg geggeageag eageggggge 1320
225 tgcqqqcqqt cgqgqctccq ggccgqgqcq gcgqccat cttgtgcccq gggccggtgg 1380
226 ggaggccggg gaggggccc cggggggcgc aggggactac gggaacggcc tggagtctga 1440
227 qqaactqqaq cctgaqgaqc tqctgctgga gcccgagccg gagcccgagc ccgaagagga 1500
228 geogeocogg cocogegeec cocogggage tecgggeect gggeetggtt egggageece 1560
229 eggeagecaa gaggaggagg aggageeggg aetggtegag ggtgaeeegg gggaeggege 1620
230 cattgaggac ccggtgagga aggagggcga gcgagcaggc cggcggctgg cgcgtcactg 1680
231 gaggcccaga gctcgggcga gcggtggcag gcggggggtg gggttgggcg gggaataacg 1740
232 tggctqgqcc qqqtcqqqcc qqqgatqqqt caqcqatcac tacaaggggc ccgactggct 1800
233 tgattcgggc gtcacgggtg cctagtgttg ttctagagag ggtagctttt cttttatcac 1860
234 gaccetegea tggggegagg gaaatggeeg ageatggetg aggegegete tggeegagag 1920
235 cagggcacag cccctgcgtt ggttcctctt aagctgtcct ccataccctc cccacttata 1980
236 ttaggagctg gaagctatca aagctcgagt cagggagatg gaggaagaag ctgagaagct 2040
237 aaaggagcta cagaacgagg tagagaagca gatgaatatg agtccacctc caggcaatgc 2100
238 tgagtaactg geggttgeac geggageeeg ggtteteggg ttggaagggt tgtggggagg 2160
239 atggggaatg tggggttaga tactcggcac cctggagctg cttgtctgag ctattatgac 2220
240 tgtgccgcgg tcatagtccg ttgtgtgttc ctctgacctt tgtgaggcag aactgatatt 2280
241 ttggtggtgg tagccttgtg cotcoctttg tcctgttata attgtgttgc tctttattct 2340
242 tagtetacgt etatettet ttggtagagg ttgcgtgete geatttgace ttcaaateta 2400
243 ataqtttttc ctccaattgg agacgcttta ggattctaaq agaaagcaag ctggaagggg 2460
244 tttccccttt aaattctaga aatgtggagt ctcagcccac ttaattttgc tcactcttaa 2520
246 tactgtttta agtgtgtatt aattetttea atttategaa ttatttagtg agtaacetge 2640
247 tatgcactag gcactattct cggcttgtgg gtacagcagg qaacagcaca gaccaaaatc 2700
248 tttgccttca ctgagcttat gggatagtgc tggtggtgga agtgcaacat attggtcaag 2760
249 tagaaaacaa gtgtgtggtt tttgtaaaaa attattttt cctgatagct ggcccggtga 2820
250 tcatgtccat tgaggagaag atggaggctg atgcccgttc catctatgtt ggcaatgtga 2880
```

DATE: 09/27/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/590,211A TIME: 13:02:22

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

251 cgtactgggg ctctgactgg ggttgggggc aagttcttct tttggggaat tatttaatag 2940 252 tcctgaaaga acatctccgg gatagatgtg gttttgggtg tggagggagt gtgggaagga 3000 253 ggttaaaggt aatggaatga tcagtaatca gcaaaggctc tgggtttgga aggaaaagag 3060 254 attaatteet caaattaeca gattteatgt getttggtgt atgatggeec agaceaaagg 3120 255 ctcqqqaqqq ttcttttqaq acaqqaattt gcctqqtqcc tqtqaaattt ttctcctctc 3180 256 atcaggtgga ctatggtgca acagcagaag agctggaagc tcactttcat ggctgtggtt 3240 257 cagtcaaccg tgttaccata ctgtgtgaca aatttagtgg ccatcccaaa ggtaaagtaa 3300 258 aggggagtaa gttgagataa tttaaattac agtgtacaaa tagataaatt atgttttata 3360 259 ttgagcagta agttatttgg tgttaacaca ggtgatctgt gtcatttaag atcatggcat 3420 260 taatqttqat atatcaqqaq ttqcacctaa atqtcttcaq aqqccaqata acaaaaatqa 3480 261 aggetagatg tgggtgggat tacgaactag aaggggaggg gcagetteta ettggeetat 3540 262 tatggcatat ggaaattcag gccctgtgtg tcttattttt acaaatttca aagagtagct 3600 263 ggaaatttta aaatttaaat gatttcgaat gattgaaatt ttccatttag aagaattttg 3660 264 acaaataaaa aatataactg cattgtagcc caaaacgaag catgcctgca ggttgaattt 3720 265 gacctgtgag gtatttgtaa cctcagagag atacaatgac aattcttttc aggtttgcgt 3780 266 atatagagtt ctcagacaaa gagtcagtga ggacttcctt ggccttagat gagtccctat 3840 267 ttagaggaag qcaaatcaag qtaaqcctat gtccattqct gttctagttg tgtataaact 3900 268 ctccaggttg cctttaaggc tatcatttgt tcatctctga ctcaggtgat cccaaaacga 3960 269 accaacagac caggcatcag cacaacagac cggggttttc cacgagcccg ctaccgcgcc 4020 270 eggaccacca actacaacag etceegetet egattetaca gtggttttaa' cageaggeee 4080 271 eggggtegeg tetacaggte aggatagatg ggetgeteet ettteeeceg cetecegtga 4140 272 geological cttectecte tetggtetga ggaaceteel tecelecael ceteleegtg 4200 274 agaaggcagc ctcatcatct tttctgcagt agaaattggt gataagggct gcatccctcc 4320 275 cttggttcaa agaggcttcc acccccagcc ttttttttct tgggagttgg tggcatttga 4380 276 aggtgtttgc ggacaaaact gggaggaaca gggcctccag gaagttgaaa gcactgcttg 4440 277 gacatttgtt acttttttcg gagttaggga gggattgaag actgaacctc ccttggaaga 4500 278 ataccagagg ctagctagtt gatcctccca acagccttgt gggaggattt tgagatactt 4560 279 attettatt tgagecagte ttgcaaggtt aactteteac tgggeetagt gtggtnecea 4620 280 ggtttttgcc ttgcttcact tctgtctcta catttaaata gacgggttag gcatataaac 4680 281 cttqqctttt cataaqctct acctqcctat ccccaqqaqt taqqqaqqat ctatttqtga 4740 282 aggccctagg gtttaaaaac tgtggaggac tgaaaaactg gataaaaagg gggtcctttt 4800 283 ccttgcccct gtctctcact cagatgcgct tctttttcgc cactgtttgg caaagttttc 4860 284 tgttaageee eeeteeeet geeeeagtte teeeaggtge gttactattt etgggateat 4920 285 ggggtcggtt ttaggacact tgaacacttc ttttcccccc ttcccttcac agtaactggg 4980 286 gcaggggcct acggggaggg gcttgtactg aactatctag tgatcacgtt aacacctaac 5040 287 teteettett tetteeaggg geegggetag agegacatea tggtatteee ettaetaaaa 5100 289 taaaaaaaaa aaaaagaaaa acagaagatg accttgatgg aaaaaaaata ttttttaaaa 5220 290 aaaagatata ctgtggaagg ggggagaatc ccataactaa ctgctgagga gggacctgct 5280 291 ttggggagta ggggaaggcc cagggagtgg ggcagggggc tgcttattca ctctggggat 5340 292 tegecatgga caegteteaa etgegeaage tgettgeeca tgttteeetg ecceetteae 5400 293 ccccttgggc ctgctcaagg gtaggtgggc gtgggtggta ggagggtttt ttttacccag 5460 294 ggctctggaa ggacaccaaa ctgttctgct tgttaccttc cctcccgtct tctcctcgcc 5520 295 tttcacagte ecetectgee tgeteetgte cagecaggte taccacecae eceacecete 5580 296 tttctccggc tccctgcccc tccagattgc ctggtgatct attttgtttc cttttgtgtt 5640 297 tetttttetg ttttgagtgt etttetttge aggtttetgt ageeggaaga teteegttee 5700 298 gctcccagcg gctccagtgt aaattcccct tccccctggg gaaatgcact accttgtttt 5760 299 ggggggttta ggggtgtttt tqtttttcag ttgttttgtt tttttqtttt tttttttcc 5820

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/590,211A

DATE: 09/27/2002 TIME: 13:02:23

Input Set : A:\3028.1000-000 SECOND SUB SEQUENCE LISTING.txt

Output Set: N:\CRF4\09272002\I590211A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; N Pos. 4616